#7

SEQUENCE LISTING

<110> OWMAN, CHRISTER

<120> HEPTAHELIX RECEPTOR AND ITS USE AS LEUKOTRIENE B4 RECEPTOR

<130> 07675.0001-03 SEQUENCE LISTING

<140> 09/893,512
<141> 2001-06-29

<150> 60/061,789
<151> 1997-10-14

<150> 60/081,958
<151> 1998-04-15

<150> 09/170,069
<151> 1998-10-13

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<170> PatentIn Ver. 2.1

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             20                  25                  30

Leu Pro Gly Asn Ser Phe Val Val Trp Ser Ile Leu Lys Arg Met Gln
         35                  40                  45

Lys Arg Ser Val Thr Ala Leu Met Val Leu Asn Leu Ala Leu Ala Asp
     50                  55                  60

Leu Ala Val Leu Leu Thr Ala Pro Phe Phe Leu His Phe Leu Ala Gln
 65                  70                  75                  80

Gly Thr Trp Ser Phe Gly Leu Ala Gly Cys Arg Leu Cys His Tyr Val
                 85                  90                  95

Cys Gly Val Ser Met Tyr Ala Ser Val Leu Leu Ile Thr Ala Met Ser
            100                 105                 110

Leu Asp Arg Ser Leu Ala Val Ala Arg Pro Phe Val Ser Gln Lys Leu
        115                 120                 125

Arg Thr Lys Ala Met Ala Arg Arg Val Leu Ala Gly Ile Trp Val Leu
    130                 135                 140

Ser Phe Leu Leu Ala Thr Pro Val Leu Ala Tyr Arg Thr Val Val Pro
145                 150                 155                 160
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Trp Lys Thr Asn Met Ser Leu Cys Phe Pro Arg Tyr Pro Ser Glu Gly
165 170 175

His Arg Ala Phe His Leu Ile Phe Glu Ala Val Thr Gly Phe Leu Leu
180 185 190

Pro Phe Leu Ala Val Val Ala Ser Tyr Ser Asp Ile Gly Arg Arg Leu
195 200 205

Gln Ala Arg Arg Phe Arg Arg Ser Arg Arg Thr Gly Arg Leu Val Val
210 215 220

Leu Ile Ile Leu Thr Phe Ala Ala Phe Trp Leu Pro Tyr His Val Val
225 230 235 240

Asn Leu Ala Glu Ala Arg Arg Ala Leu Ala Gly Gln Ala Ala Gly Leu
245 250 255

Gly Leu Val Gly Lys Arg Leu Ser Leu Ala Arg Asn Val Leu Ile Ala
260 265 270

Leu Ala Phe Leu Ser Ser Ser Val Asn Pro Val Leu Tyr Ala Cys Ala
275 280 285

Rub D7

Gly Gly Gly Leu Leu Arg Ser Ala Gly Val Gly Phe Val Ala Lys Leu
290 295 300

Leu Glu Gly Thr Gly Ser Glu Ala Ser Ser Thr Arg Arg Gly Gly Ser
305 310 315 320

Leu Gly Gln Thr Ala Arg Ser Gly Pro Ala Ala Leu Glu Pro Gly Pro
325 330 335

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<213> Homo sapiens

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<223> Xaa at position 3 is any amino acid

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1 5

<210> 8
<211> 18
<212> PRT
<213> Homo sapiens

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<223> Xaa at position 6 is any amino acid

<220>
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<223> Xaa at position 7 is any amino acid

<220>
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<222> (12)
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<222> (17)
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Rob D7

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Leu Leu Asn Leu Ala Xaa Xaa Asp Leu Leu Phe Xaa Xaa Thr Leu Pro
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Xaa Trp

<210> 9
<211> 350
<212> PRT
<213> Homo sapiens

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20 25 30

Glu Thr Glu Thr Leu Asn Lys Tyr Val Val Ile Ile Ala Tyr Ala Leu
35 40 45

Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val Met Leu Val Ile
50 55 60

Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val Tyr Leu Leu Asn
65 70 75 80

Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu Pro Ile Trp Ala
85 90 95

Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe Leu Cys Lys Val
100 105 110

Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly Ile Leu Leu Leu
115 120 125

Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val His Ala Thr Arg
130 135 140

Thr Leu Thr Gln Lys Arg His Leu Val Lys Phe Val Cys Leu Gly Cys
145 150 155 160

Trp Gly Leu Ser Met Asn Leu Ser Leu Pro Phe Phe Leu Phe Arg Gln
165 170 175

Ala Tyr His Pro Asn Asn Ser Ser Pro Val Cys Tyr Glu Val Leu Gly
180 185 190

Asn Asp Thr Ala Lys Trp Arg Met Val Leu Arg Ile Leu Pro His Thr
195 200 205

Phe Gly Phe Ile Val Pro Leu Phe Val Met Leu Phe Cys Tyr Gly Phe
210 215 220

Thr Leu Arg Thr Leu Phe Lys Ala His Met Gly Gln Lys His Arg Ala
225 230 235 240

Met Arg Val Ile Phe Ala Val Val Leu Ile Phe Leu Leu Cys Trp Leu
245 250 255

Pro Tyr Asn Leu Val Leu Leu Ala Asp Thr Leu Met Arg Thr Gln Val
260 265 270

Ile Gln Glu Thr Cys Glu Arg Arg Asn Asn Ile Gly Arg Ala Leu Asp
275 280 285

Ala Thr Glu Ile Leu Gly Phe Leu His Ser Cys Leu Asn Pro Ile Ile
290 295 300

Tyr Ala Phe Ile Gly Gln Asn Phe Arg His Gly Phe Leu Lys Ile Leu
305 310 315 320

Ala Met His Gly Leu Val Ser Lys Glu Phe Leu Ala Arg His Arg Val
325 330 335

Thr Ser Tyr Thr Ser Ser Ser Val Asn Val Ser Ser Asn Leu
340 345 350

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<213> Homo sapiens

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20 25 30

Pro Cys Glu Pro Glu Ser Leu Glu Ile Asn Lys Tyr Phe Val Val Ile
35 40 45

Ile Tyr Ala Leu Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val
50 55 60

Met Leu Val Ile Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val
65 70 75 80

Tyr Leu Leu Asn Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu
85 90 95

Pro Ile Trp Ala Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe
100 105 110

Leu Cys Lys Val Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly
115 120 125

Ile Leu Leu Leu Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val
130 135 140

His Ala Thr Arg Thr Leu Thr Gln Lys Arg Tyr Leu Val Lys Phe Ile
145 150 155 160

Cys Leu Ser Ile Trp Gly Leu Ser Leu Leu Leu Ala Leu Pro Val Leu

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                165                 170                 175

Leu Phe Arg Arg Thr Val Tyr Ser Ser Asn Val Ser Pro Ala Cys Tyr
            180                 185                 190

Glu Asp Met Gly Asn Asn Thr Ala Asn Trp Arg Met Leu Leu Arg Ile
        195                 200                 205

Leu Pro Gln Ser Phe Gly Phe Ile Val Pro Leu Leu Ile Met Leu Phe
    210                 215                 220

Cys Tyr Gly Phe Thr Leu Arg Thr Leu Phe Lys Ala His Met Gly Gln
225                 230                 235                 240

Lys His Arg Ala Met Arg Val Ile Phe Ala Val Val Leu Ile Phe Leu
                245                 250                 255

Leu Cys Trp Leu Pro Tyr Asn Leu Val Leu Leu Ala Asp Thr Leu Met
            260                 265                 270

Arg Thr Gln Val Ile Gln Glu Thr Cys Glu Arg Arg Asn His Ile Asp
        275                 280                 285

Arg Ala Leu Asp Ala Thr Glu Ile Leu Gly Ile Leu His Ser Cys Leu
    290                 295                 300

Asn Pro Leu Ile Tyr Ala Phe Ile Gly Gln Lys Phe Arg His Gly Leu
305                 310                 315                 320

Leu Lys Ile Leu Ala Ile His Gly Leu Ile Ser Lys Asp Ser Leu Pro
                325                 330                 335

Lys Asp Ser Arg Pro Ser Phe Val Gly Ser Ser Ser Gly His Thr Ser
            340                 345                 350

Thr Thr Leu
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<210> 11
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<212> PRT
<213> Homo sapiens

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Met Glu Thr Pro Asn Thr Thr Glu Asp Tyr Asp Thr Thr Thr Glu Phe
  1               5                  10                  15
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Asp Tyr Gly Asp Ala Thr Pro Cys Gln Lys Val Asn Glu Arg Ala Phe
            20                  25                  30

Gly Ala Gln Leu Leu Pro Pro Leu Tyr Ser Leu Val Phe Val Ile Gly
        35                  40                  45

Leu Val Gly Asn Ile Leu Val Val Leu Val Leu Val Gln Tyr Lys Arg
    50                  55                  60

Leu Lys Asn Met Thr Ser Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp
65                  70                  75                  80

Leu Leu Phe Leu Phe Thr Leu Pro Phe Trp Ile Asp Tyr Lys Leu Lys
                85                  90                  95

Asp Asp Trp Val Phe Gly Asp Ala Met Cys Lys Ile Leu Ser Gly Phe
            100                 105                 110

Tyr Tyr Thr Gly Leu Tyr Ser Glu Ile Phe Phe Ile Ile Leu Leu Thr
        115                 120                 125

Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe Ala Leu Arg Ala
    130                 135                 140

Arg Thr Val Thr Phe Gly Val Ile Thr Ser Ile Ile Ile Trp Ala Leu
145                 150                 155                 160

Ala Ile Leu Ala Ser Met Pro Gly Leu Tyr Phe Ser Lys Thr Gln Trp
                165                 170                 175

Glu Phe Thr His His Thr Cys Ser Leu His Phe Pro His Glu Ser Leu
            180                 185                 190

Arg Glu Trp Lys Leu Phe Gln Ala Leu Lys Leu Asn Leu Phe Gly Leu
        195                 200                 205

Val Leu Pro Leu Leu Val Met Ile Ile Cys Tyr Thr Gly Ile Ile Lys
    210                 215                 220

Ile Leu Leu Arg Arg Pro Asn Glu Lys Lys Ser Lys Ala Val Arg Leu
225                 230                 235                 240

Ile Phe Val Ile Met Ile Ile Phe Phe Leu Phe Trp Thr Pro Tyr Asn
                245                 250                 255

Leu Thr Ile Leu Ile Ser Val Phe Gln Asp Phe Leu Phe Thr His Glu
            260                 265                 270
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Cys Glu Gln Ser Arg His Leu Asp Leu Ala Val Gln Val Thr Glu Val
275 280 285

Ile Ala Tyr Thr His Cys Cys Val Asn Pro Val Ile Tyr Ala Phe Val
290 295 300

Gly Glu Arg Phe Arg Lys Tyr Leu Arg Gln Leu Phe His Arg Arg Val
305 310 315 320

Ala Val His Leu Val Lys Trp Leu Pro Phe Leu Ser Val Asp Arg Leu
325 330 335

Glu Arg Val Ser Ser Thr Ser Pro Ser Thr Gly Glu His Glu Leu Ser
340 345 350

Ala Gly Phe
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<212> PRT
<213> Homo sapiens

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Thr Glu Phe Asp Tyr Gly Asp Ala Thr Pro Cys Gln Lys Val Asn Glu
20 25 30

Arg Ala Phe Gly Ala Gln Leu Leu Pro Pro Leu Tyr Ser Leu Val Phe
35 40 45

Val Ile Gly Leu Val Pro Glu Pro Gly Asn Ile Leu Val Val Leu Val
50 55 60

Leu Val Gln Tyr Lys Arg Leu Lys Asn Met Thr Ser Ile Tyr Leu Leu
65 70 75 80

Asn Leu Ala Ile Ser Asp Leu Leu Phe Leu Phe Thr Leu Pro Phe Trp
85 90 95

Ile Asp Tyr Lys Leu Lys Asp Asp Trp Val Pro Glu Pro Phe Gly Asp
100 105 110

Ala Met Cys Lys Ile Leu Ser Gly Phe Tyr Tyr Thr Gly Leu Tyr Ser
115 120 125

Glu Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile
130 135 140

Val His Ala Val Phe Ala Leu Arg Ala Arg Thr Val Thr Phe Gly Pro
145 150 155 160

Glu Pro Val Ile Thr Ser Ile Ile Ile Trp Ala Leu Ala Ile Leu Ala
165 170 175

Ser Met Pro Gly Leu Tyr Phe Ser Lys Thr Gln Trp Glu Phe Thr His
180 185 190

His Thr Cys Ser Leu His Phe Pro His Glu Ser Leu Arg Glu Trp Lys
195 200 205

Leu Phe Gln Ala Pro Glu Pro Leu Lys Leu Asn Leu Phe Gly Leu Val
210 215 220

Leu Pro Leu Leu Val Met Ile Ile Cys Tyr Thr Gly Ile Ile Lys Ile
225 230 235 240

Leu Leu Arg Arg Pro Asn Glu Lys Lys Ser Lys Ala Val Arg Leu Ile
245 250 255

Phe Val Ile Met Ile Ile Phe Phe Leu Pro Glu Pro Phe Trp Thr Pro
260 265 270

Tyr Asn Leu Thr Ile Leu Ile Ser Val Phe Gln Asp Phe Leu Phe Thr
275 280 285

His Glu Cys Glu Gln Ser Arg His Leu Asp Leu Ala Val Gln Val Thr
290 295 300

Glu Val Ile Ala Tyr Thr His Cys Cys Val Asn Pro Val Ile Pro Glu
305 310 315 320

Pro Tyr Ala Phe Val Gly Glu Arg Phe Arg Lys Tyr Leu Arg Gln Leu
325 330 335

Phe His Arg Arg Val Ala Val His Leu Val Lys Trp Leu Pro Phe Leu
340 345 350

Ser Val Asp Arg Leu Asp Arg Val Ser Ser Thr Ser Pro Ser Thr Gly
355 360 365

Glu His Glu Pro Glu Pro Leu Ser Ala Gly Phe
370 375

<210> 13
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<212> PRT
<213> Homo sapiens

<400> 13

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 1               5                  10                  15

Gly Glu Glu Val Thr Thr Phe Phe Asp Tyr Asp Tyr Gly Ala Pro Cys
            20                  25                  30

His Lys Phe Asp Val Lys Gln Ile Gly Ala Gln Leu Leu Pro Pro Leu
        35                  40                  45

Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn Met Leu Val Val
    50                  55                  60

Leu Ile Leu Ile Asn Cys Lys Lys Leu Lys Cys Leu Thr Asp Ile Tyr
65                  70                  75                  80

Leu Leu Asn Leu Ala Ile Ser Asp Leu Leu Phe Leu Ile Thr Leu Pro
                85                  90                  95

Leu Trp Ala His Ser Ala Ala Asn Glu Trp Val Phe Gly Asn Ala Met
            100                 105                 110

Cys Lys Leu Phe Thr Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile
        115                 120                 125

Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His
    130                 135                 140

Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Val Thr
145                 150                 155                 160

Ser Val Ile Thr Trp Leu Val Ala Val Phe Ala Ser Val Pro Gly Ile
                165                 170                 175

Ile Phe Thr Lys Cys Gln Lys Glu Asp Ser Val Tyr Val Cys Gly Pro
            180                 185                 190

Tyr Phe Pro Arg Gly Trp Asn Asn Phe His Thr Ile Met Arg Asn Ile
        195                 200                 205

Leu Gly Leu Val Leu Pro Leu Leu Ile Met Val Ile Cys Tyr Ser Gly
```

```
    210                 215                 220

Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg
225                 230                 235                 240

Ala Val Arg Val Ile Phe Thr Ile Met Ile Val Tyr Phe Leu Phe Trp
                245                 250                 255

Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn Thr Phe Gln Glu Phe Phe
            260                 265                 270

Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln Leu Asp Gln Ala Thr Gln
        275                 280                 285

Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Asn Pro Ile Ile
    290                 295                 300

Tyr Ala Phe Val Gly Glu Lys Phe Arg Ser Leu Phe His Ile Ala Leu
305                 310                 315                 320

Gly Cys Arg Ile Ala Pro Leu Gln Lys Pro Val Cys Gly Gly Pro Gly
                325                 330                 335

Val Arg Pro Gly Lys Asn Val Lys Val Thr Thr Gln Gly Leu Leu Asp
            340                 345                 350

Gly Arg Gly Lys Gly Lys Ser Ile Gly Arg Ala Pro Glu Ala Ser Leu
        355                 360                 365

Gln Asp Lys Glu Gly Ala
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<210> 14
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<212> PRT
<213> Homo sapiens

<400> 14

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Asn Glu Ser Gly Glu Glu Val Thr Thr Phe Phe Asp Tyr Asp Tyr Gly
             20                  25                  30

Ala Pro Cys His Lys Phe Asp Val Lys Gln Ile Gly Ala Gln Leu Leu
         35                  40                  45
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Pro Pro Leu Tyr Ser Pro Glu Pro Leu Val Phe Ile Phe Gly Phe Val
50 55 60

Gly Asn Met Leu Val Val Leu Ile Leu Ile Asn Cys Lys Lys Leu Lys
65 70 75 80

Cys Leu Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Leu
85 90 95

Phe Leu Ile Thr Leu Pro Leu Trp Ala His Pro Glu Pro Ser Ala Ala
100 105 110

Asn Glu Trp Val Phe Gly Asn Ala Met Cys Lys Leu Phe Thr Gly Leu
115 120 125

Tyr His Ile Gly Tyr Phe Gly Gly Ile Phe Phe Ile Ile Leu Leu Thr
130 135 140

Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe Ala Leu Lys Pro
145 150 155 160

Glu Pro Ala Arg Thr Val Thr Phe Gly Val Val Thr Ser Val Ile Thr
165 170 175

Trp Leu Val Ala Val Phe Ala Ser Val Pro Gly Ile Ile Phe Thr Lys
180 185 190

Cys Gln Lys Glu Asp Ser Val Tyr Val Cys Gly Pro Tyr Phe Pro Arg
195 200 205

Gly Trp Asn Asn Pro Glu Pro Phe His Thr Ile Met Arg Asn Ile Leu
210 215 220

Gly Leu Val Leu Pro Leu Leu Ile Met Val Ile Cys Tyr Ser Gly Ile
225 230 235 240

Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg Ala
245 250 255

Val Arg Val Ile Phe Thr Ile Met Ile Pro Glu Pro Val Tyr Phe Leu
260 265 270

Phe Trp Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn Thr Phe Gln Glu
275 280 285

Phe Phe Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln Leu Asp Gln Ala
290 295 300

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Thr Gln Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Pro Glu
305                 310                 315                 320

Pro Asn Pro Ile Ile Tyr Ala Phe Val Gly Glu Lys Phe Arg Arg Tyr
                325                 330                 335

Leu Ser Val Phe Phe Arg Lys His Ile Thr Lys Arg Phe Cys Lys Gln
            340                 345                 350

Cys Pro Val Phe Tyr Arg Glu Thr Val Asp Gly Val Thr Ser Thr Asn
        355                 360                 365

Thr Pro Ser Pro Glu Pro Thr Gly Glu Gln Glu Val Ser Ala Gly Leu
    370                 375                 380
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<210> 15
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<212> PRT
<213> Homo sapiens

<400> 15

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Met Asn Ser Phe Asn Tyr Thr Thr Pro Asp Tyr Gly His Tyr Asp Asp
  1               5                  10                  15

Lys Asp Thr Leu Asp Leu Asn Thr Pro Val Asp Lys Thr Ser Asn Thr
             20                  25                  30

Leu Arg Val Pro Asp Ile Leu Ala Leu Val Ile Phe Ala Val Val Phe
         35                  40                  45

Leu Val Gly Val Leu Gly Asn Ala Leu Val Val Trp Val Thr Ala Phe
     50                  55                  60

Glu Ala Lys Arg Thr Ile Asn Ala Ile Trp Phe Leu Asn Leu Ala Val
 65                  70                  75                  80

Ala Asp Phe Leu Ser Cys Leu Ala Leu Pro Ile Leu Phe Thr Ser Ile
                 85                  90                  95

Val Gln His His His Trp Pro Phe Gly Gly Ala Ala Cys Ser Ile Leu
            100                 105                 110

Pro Ser Leu Ile Leu Leu Asn Met Tyr Ala Ser Ile Leu Leu Leu Ala
        115                 120                 125
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Thr Ile Ser Ala Asp Arg Phe Leu Leu Val Phe Lys Pro Ile Trp Cys
130 135 140

Gln Asn Phe Arg Gly Ala Gly Leu Ala Trp Ile Ala Cys Ala Val Ala
145 150 155 160

Trp Gly Leu Ala Leu Leu Leu Thr Ile Pro Ser Phe Leu Tyr Arg Val
165 170 175

Val Arg Glu Glu Tyr Phe Pro Pro Lys Val Leu Cys Gly Val Asp Tyr
180 185 190

Ser His Asp Lys Arg Arg Glu Arg Ala Val Ala Ile Val Arg Leu Val
195 200 205

Leu Gly Phe Leu Trp Pro Leu Leu Thr Leu Thr Ile Cys Tyr Thr Phe
210 215 220

Ile Leu Leu Arg Thr Trp Ser Arg Arg Ala Thr Arg Ser Thr Lys Thr
225 230 235 240

Leu Lys Val Val Val Ala Val Val Ala Ser Phe Phe Ile Phe Trp Leu
245 250 255

Pro Tyr Gln Val Thr Gly Ile Met Met Ser Phe Leu Glu Pro Ser Ser
260 265 270

Pro Thr Phe Leu Leu Leu Asn Lys Leu Asp Ser Leu Cys Val Ser Phe
275 280 285

Ala Tyr Ile Asn Cys Cys Ile Asn Pro Ile Ile Tyr Val Val Ala Gly
290 295 300

Gln Gly Phe Gln Gly Arg Leu Arg Lys Ser Leu Pro Ser Leu Leu Arg
305 310 315 320

Asn Val Leu Thr Glu Glu Ser Val Val Arg Glu Ser Lys Ser Phe Thr
325 330 335

Arg Ser Thr Val Asp Thr Met Ala Gln Lys Thr Gln Ala Val
340 345 350

<210> 16
<211> 351
<212> PRT
<213> Homo sapiens

<400> 16

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 1               5                  10                  15

Ala Val Ser Ala Gly Tyr Leu Phe Leu Asp Ile Ile Thr Tyr Leu Val
            20                  25                  30

Phe Ala Val Thr Phe Val Leu Gly Val Leu Gly Asn Gly Leu Val Ile
        35                  40                  45

Trp Val Ala Gly Phe Arg Met Thr His Thr Val Thr Thr Ile Ser Tyr
    50                  55                  60

Leu Asn Leu Ala Val Ala Asp Phe Cys Phe Thr Ser Thr Leu Pro Phe
65                  70                  75                  80

Phe Met Val Arg Lys Ala Met Gly Gly His Trp Pro Phe Gly Trp Phe
                85                  90                  95

Leu Cys Lys Phe Leu Phe Thr Ile Val Asp Ile Asn Leu Phe Gly Ser
            100                 105                 110

Val Phe Leu Ile Ala Leu Ile Ala Leu Asp Arg Cys Val Cys Val Leu
        115                 120                 125

His Pro Val Trp Thr Gln Asn His Arg Thr Val Ser Leu Ala Lys Lys
    130                 135                 140

Val Ile Ile Gly Pro Trp Val Met Ala Leu Leu Leu Thr Leu Pro Val
145                 150                 155                 160

Ile Ile Arg Val Thr Thr Val Pro Gly Lys Thr Gly Thr Val Ala Cys
                165                 170                 175

Thr Phe Asn Phe Ser Pro Trp Thr Asn Asp Pro Lys Glu Arg Ile Asn
            180                 185                 190

Val Ala Val Ala Met Leu Thr Val Arg Gly Ile Ile Arg Phe Ile Ile
        195                 200                 205

Gly Phe Ser Ala Pro Met Ser Ile Val Ala Val Ser Tyr Gly Leu Ile
    210                 215                 220

Ala Thr Lys Ile His Lys Gln Gly Leu Ile Lys Ser Ser Arg Pro Leu
225                 230                 235                 240

Arg Val Leu Ser Phe Val Ala Ala Ala Phe Phe Leu Cys Trp Ser Pro
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                245                 250                 255

Tyr Gln Val Val Ala Leu Ile Ala Thr Val Arg Ile Arg Glu Leu Leu
            260                 265                 270

Gln Gly Met Tyr Lys Glu Ile Gly Ile Ala Val Asp Val Thr Ser Ala
        275                 280                 285

Leu Ala Phe Phe Asn Ser Cys Leu Asn Pro Met Leu Tyr Val Phe Met
    290                 295                 300

Gly Gln Asp Phe Arg Glu Arg Leu Ile His Ala Leu Pro Ala Ser Leu
305                 310                 315                 320

Glu Arg Ala Leu Thr Glu Asp Ser Thr Gln Thr Ser Asp Thr Ala Thr
                325                 330                 335

Asn Ser Thr Leu Pro Ser Ala Glu Val Ala Leu Gln Ala Lys Cys
            340                 345                 350


<210> 17
<211> 352
<212> PRT
<213> Homo sapiens

<400> 17
Met Asn Thr Thr Ser Ser Ala Ala Pro Pro Ser Leu Gly Val Glu Phe
  1               5                  10                  15

Ile Ser Leu Leu Ala Ile Ile Leu Leu Ser Val Ala Leu Ala Val Gly
            20                  25                  30

Leu Pro Gly Asn Ser Phe Val Val Trp Ser Ile Leu Lys Arg Met Gln
        35                  40                  45

Lys Arg Ser Val Thr Ala Leu Met Val Leu Asn Leu Ala Leu Ala Asp
    50                  55                  60

Leu Ala Val Leu Leu Thr Ala Pro Phe Phe Leu His Phe Leu Ala Gln
65                  70                  75                  80

Gly Thr Trp Ser Phe Gly Leu Ala Gly Cys Arg Leu Cys His Tyr Val
                85                  90                  95

Cys Gly Val Ser Met Tyr Ala Ser Val Leu Leu Ile Thr Ala Met Ser
            100                 105                 110
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Leu Asp Arg Ser Leu Ala Val Ala Arg Pro Phe Val Ser Gln Lys Leu
115 120 125

Arg Thr Lys Ala Met Ala Arg Arg Val Leu Ala Gly Ile Trp Val Leu
130 135 140

Ser Phe Leu Leu Ala Thr Pro Val Leu Ala Tyr Arg Thr Val Val Pro
145 150 155 160

Trp Lys Thr Asn Met Ser Leu Cys Phe Pro Arg Tyr Pro Ser Glu Gly
165 170 175

His Arg Ala Phe His Leu Ile Phe Glu Ala Val Thr Gly Phe Leu Leu
180 185 190

Pro Phe Leu Ala Val Val Ala Ser Tyr Ser Asp Ile Gly Arg Arg Leu
195 200 205

Gln Ala Arg Arg Phe Arg Arg Ser Arg Arg Thr Gly Arg Leu Val Val
210 215 220

Leu Ile Ile Leu Thr Phe Ala Ala Phe Trp Leu Pro Tyr His Val Val
225 230 235 240

Asn Leu Ala Glu Ala Arg Arg Ala Leu Ala Gly Gln Ala Ala Gly Leu
245 250 255

Gly Leu Val Gly Lys Arg Leu Ser Leu Ala Arg Asn Val Leu Ile Ala
260 265 270

Leu Ala Phe Leu Ser Ser Ser Val Asn Pro Val Leu Tyr Ala Cys Ala
275 280 285

Gly Gly Gly Leu Leu Arg Ser Ala Gly Val Gly Phe Val Ala Lys Leu
290 295 300

Leu Glu Gly Thr Gly Ser Glu Ala Ser Ser Thr Arg Arg Gly Gly Ser
305 310 315 320

Leu Gly Gln Thr Ala Arg Ser Gly Pro Ala Ala Leu Glu Pro Gly Pro
325 330 335

Ser Glu Ser Leu Thr Ala Ser Ser Pro Leu Lys Leu Asn Glu Leu Asn
340 345 350